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**Title:** JP11204151A2: BATTERY COOLING DEVICE OF ELECTRIC VEHICLE

**Derwent Title:** Battery cooling system for electric vehicle - has heat exchange pipe to contact battery module and heat sink for transferring heat generated in battery module to heat sink [\[Derwent Record\]](#)

**Country:** JP Japan

**Kind:** A

**Inventor:** SHIMONOSONO HITOSHI;

**Assignee:** NISSAN MOTOR CO LTD  
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**Published / Filed:** 1999-07-30 / 1998-01-08

**Application Number:** JP1998000002045

**IPC Code:** H01M 10/50; B60L 11/18; F01P 3/12; B60K 1/04; B60K 11/04;

**Priority Number:** 1998-07-21 JP1998000002045

**Abstract:** PROBLEM TO BE SOLVED: To provide a battery cooling device for an electric vehicle capable of efficiently controlling the battery temperature.

SOLUTION: A heat pipe 3 is brought into contact with a battery module 1, the other end of the heat pipe 3 is connected to a heat sink 5, and the heat generated in the battery is transferred to the heat sink 5, a heat accumulating material 6 such as paraffin in contained in the heat sink 5, and a cooling water passage 7 passing through the heat reserving material 6, a cooling water piping 8 connected to the cooling water passage 7, an electric pump 9, and a radiator 10 are arranged.

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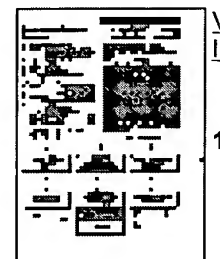
**INPADOC Legal Status:** None [Get Now: Family Legal Status Report](#)

**Family:** [Show 2 known family members](#)

**Forward References:** [Go to Result Set: Forward references \(1\)](#)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes

**Other Abstract Info:** DERABS G1999-484467 DERABS G1999-484467



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(19)

(11) Publication number: **11204**

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **10002045**(51) Intl. Cl.: **H01M 10/50 B60L 11/18 F01P 3/12**(22) Application date: **08.01.98**

(30) Priority:

(43) Date of application  
publication: **30.07.99**(84) Designated contracting  
states:(71) Applicant: **NISSAN MOTOR CO LTD**(72) Inventor: **SHIMONOSONO HITOSHI**

(74) Representative:

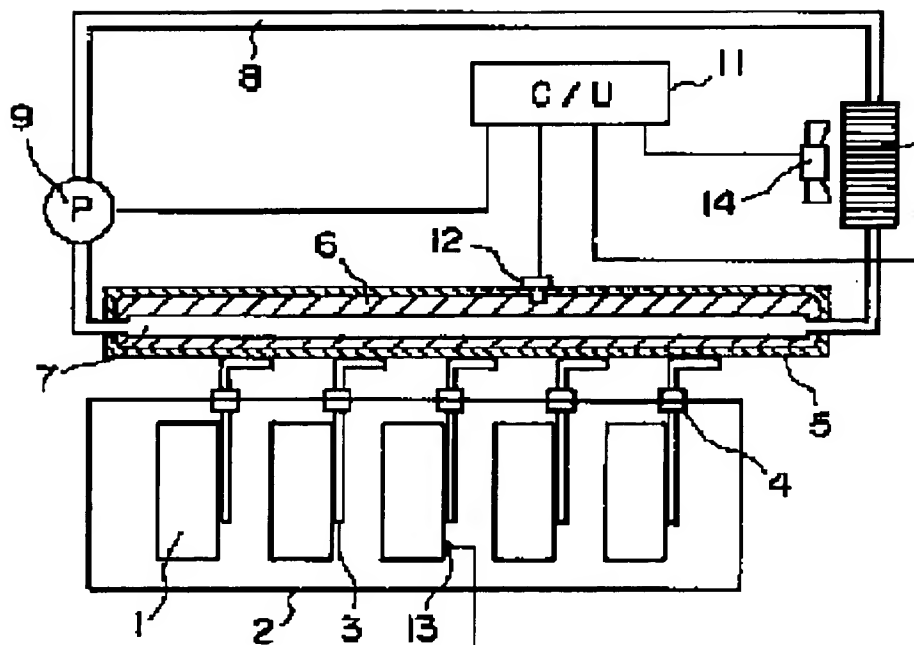
**(54) BATTERY COOLING  
DEVICE OF ELECTRIC  
VEHICLE**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a battery cooling device for an electric vehicle capable of efficiently controlling the battery temperature.

**SOLUTION:** A heat pipe 3 is brought into contact with a battery module 1, the other end of the heat pipe 3 is connected to a heat sink 5, and the heat generated in the battery is transferred to the heat sink 5, a heat accumulating material 6 such as paraffin is contained in the heat sink 5, and a cooling water passage 7 passing through the heat reserving material 6, a cooling water piping 8 connected to the cooling water passage 7, an electric pump 9, and a radiator 10 are arranged.

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